

ALABAMA SPACE GRANT CONSORTIUM

JOINT UNIVERSITY-INDUSTRY RESEARCH PROGRAM

Purpose

- To foster new collaborations between researchers at Alabama Space Grant Consortium universities and industry (preferably Alabama-based) in aerospace-related areas or spin-offs from such work. The Consortium is particularly interested in the transfer of technology from aerospace research and development into the civilian industrial sector. Aerospace R&D may be interpreted broadly.
- To encourage researchers in two kinds of institutions to explore each others' needs and requirements, discovering new ways in which the two may work together symbiotically.

Approach

The Alabama Space Grant Consortium will provide seed funding of \$10,000 each (up to 5 awards) for small joint research programs to provide a basis or structure in which practical real-world working interactions may develop.

Advantages

To Industry

- Allows access to most recent thinking or developments in specialized fields;
- Allows use of special equipment or facilities at the universities;
- Allows development of new lines of inquiry without major investment in specialized personnel or equipment;
- Allows immediate access to the new data produced.

To Universities

- Allows access to the commercial research and development world;
- Stimulates development of new clientele, providing new markets for research expertise and new opportunities for students.

To the State of Alabama

- Encourages the use of capital-intensive university equipment and facilities by industrial scientists and engineers adding a new level of return on State investment;
- Stimulates meaningful interaction of Alabama university faculty and industry;
- Stimulates the growth of small high-tech businesses in Alabama and encourages longer term development of advanced technology products by firms of all sizes.

Budget

The Alabama Space Grant consortium will provide up to \$10,000 to the University Principal Investigator.

- Awards are federal funds and must be expended according to federal regulations.
- Space Grant funds are education or training funds and have some restrictions attached.
- The awards may not be used for either equipment purchase or salary payments to the industry Co-PI.

Contact your office of sponsored programs or research administration for advice, if necessary.

Matching is required by the terms of the grant on a 1:1 basis or better. We shall be as flexible as possible in the interpretation of this rule, but two conditions should be met: matching funds may not be from a federal source, and the matching expenditures must be traceable or auditable. A sample budget is given below. Commitment to the program by both the host university and the host industry is important. Evidence for this includes not only provision of real funds, but also may include release time for investigators, waiving of student fees, instrument-use fees and overhead.

An *EXAMPLE* of a typical university budget might be:

	<u>ASGC funded</u>	<u>University match</u>	<u>Industry Match*</u>
University co-PI (2 months)	\$ 3,000	\$ 3,000 (release time)	Cash
Student stipend (2 months)	2,000		Materials
Tuition waiver (1 semester)		1,500	In-kind
Instrument use fees (hrs x \$50/hr)		2,000	Other
Supplies and services	3,000		
Travel	1,000		
Benefits (x %)	1,000		
Overhead (est. 40%)	10,000	<u>6,600</u>	
		13,100	

*If industry commitments of resources to the project are to be used as match, these amounts must be explicitly stated in the signed letter of industrial commitment.

Proposal Requirements:

The Co-PIs should ensure that each copy of the proposal contains:

1. Completed title/signature page (see attached)
2. An abstract of up to 250 words
3. Research plan:
 - Background
 - Objectives
 - Approach
 - History of prior interaction of Co-PIs (if any)
 - Plan for project development and future funding
4. Budget
5. Co-PI's resume (1 or 2 page version)
6. Letter of commitment from industry official
7. Signed disclosure statement
8. Signature of ASGC Campus Director

There is a LIMIT of 6 pages, not including title page and investigators' resumes, disclosure statement, or letter(s) of commitment. Over-length proposals will NOT be reviewed.

Original + 6 copies delivered to the Campus Director.

Direct any questions to your respective campus director (see list attached) or to the ASGC Program Office (256-824-6800).

Evaluation and Selection:

Project proposals will be evaluated and selected by a non-partisan technical committee based on the criteria set forth below. The committee will be drawn from industrial, NASA, and university sources and will avoid membership from proposing institutions or entities.

Selection criteria will include:

- Soundness of the technical research approach
- Qualifications of the individual proposers
- Relevance of the project towards NASA's and/or the State of Alabama's development goals
- Assessment of proposers' plan for long-range project or product development
- Demonstration of how ASGC funding would increase probability of securing external support
- Budget appropriateness
- Degree to which cross-fertilization of ideas and use of facilities between institutions is real, evident and useful. (For example, show how the industry Co-I is committed to spend time and other resources together with you.)

Anticipated Award Date: February/March

Duration: 12 months, or less. Grantees shall be eligible to apply for continued funding in competition with new proposers.

Reporting: Interim technical report (1 page) due at 6 months after award.
Final report, not to exceed 1500 words, shall include technical accomplishments and other information of interest to NASA and The Alabama Department of Economic and Community Affairs (ADECA).

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TITLE/SIGNATURE PAGE

Project Title: _____

University Co-PI: _____ Phone: _____

E-mail address: _____

University: _____ Department: _____

Address: _____
City State Zip

PI Signature: _____ Date: _____

Industry Co-PI: _____ Phone: _____

Industry Name: _____

Address: _____
City State Zip

E-mail address: _____

Signature: _____ Date: _____

Type of Industry: _____

ASGC Campus Director Signature: _____

University official with research commitment authority:

(Signature) Date: _____

(Typed Name and Title)

Prior Disclosure Statement (University Co-PI)

Do you, or any member of your immediate family, have any financial interest (direct or indirect) in the company or firm which is involved in the work proposed in this submission?

_____ Yes _____ No

If yes, please give details.

Signature/date

A University PI interest in a collaborating industry does not necessarily exempt a project from funding. Prior disclosure shall enable the ASGC and UAH, the legal entity in which the ASGC operates, to make a determination of potential conflict of interest.

Management and Administration

The Alabama Space Grant Consortium is composed of seven PhD-granting universities in the state of Alabama: The University of Alabama in Huntsville, Alabama A&M University, The University of Alabama, The University of Alabama at Birmingham, Tuskegee University, University of South Alabama and Auburn University. The Alabama Space Grant Program is administered by The University of Alabama in Huntsville, a Space Grant College.

The Consortium Director and a Campus Director on each of the seven campuses constitute the Consortium Management Team. The names, addresses, and phone numbers are as follows:

Dr. John Gregory, Director

Alabama Space Grant Program Office

The University of Alabama in Huntsville
MSB 205

Huntsville, AL 35899

Phone: 256/824-6028; 6800; 6076 FAX: 256/824-6061

E-mail: jcgregory@matsci.uah.edu

Ms. Jackie Reasoner, Assistant Director

Phone: 256/824-6800 FAX: 256/824-6061

E-mail: jfreasoner@matsci.uah.edu

<http://www.uah.edu/ASGC/>

Names and Locations of Field Centers of the National Aeronautics and Space Administration

**George C. Marshall
Space Flight Center**

Mail Stop CD60
NASA
Huntsville, AL 35812

Ames Research Center

Mail Stop AHT-241-3
NASA
Moffett Field, CA 94035

Goddard Space Flight Center

NASA
Mail Code 600
Greenbelt, MD 20771

Jet Propulsion Laboratory

Mail Stop 183-900
4800 Oak Grove Drive
Pasadena, CA 91109

**John F. Kennedy
Space Center**

NASA
Kennedy Space Center,
FL 32899

**Lyndon B. Johnson
Space Center**

Mail Code AP-2
NASA
Houston, TX 77058

Langley Research Center

Mail Stop 400
NASA
Hampton, VA 23681-0001

Lewis Research Center

Mail Stop CP-1
NASA
2100 Brookpark Road
Cleveland, OH 44135

John C. Stennis Space Center

NASA
Stennis Space Center
Stennis, MS 39529

Campus Directors:

Alabama A&M University

Dr. Daryush Ila

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The University of Alabama

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**The University of Alabama
at Birmingham**

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E-mail: vohra@phy.uab.edu

**The University of Alabama
in Huntsville**

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Dr. Samuel Strada

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FAX: 251/460-6073
E-mail: sstrada@jaguar1.usouthal.edu

Tuskegee University

Dr. Sam Giles

College of Engineering,
Electrical Engineering
Department 316
Tuskegee, AL 36088
Phone: 334/727-8995
FAX: 334/724-4806
E-mail: giless@tuskegee.edu

The Space Grant Scholarships awarded by the Alabama Space Grant Consortium will be administered by the Consortium Program Office through the Campus Director on whose campus the Scholar is enrolled.

The Alabama Space Grant Consortium Joint Industry Research Program Synopsis

1. Limited-term, start-up, joint research program with industry and university Co-PIs.
2. \$10,000 ASGC funding to university Co-PI.
3. Matching with non-federal funds required (1:1 is a guideline).
4. Aerospace technology transfer, space related research or spin-off technology development*.
5. Must have plan for longer term project development (non-ASGC funding)*.
6. Deadline for proposals: **Accepted year round when funds are available.**
Completed proposals should be given to the appropriate campus director who will forward them to the Consortium Program Office.

Up to 5 awards will be made.

Award date: February/March

*See Explanatory Notes

*Explanatory Notes

- Relevance to NASA's constituency and/or to Alabama's needs.

You may address this as you think fit. Basically you are answering the question: "Who wants or needs these results or products?" or "How will this help the technological or economic development of Alabama?" Alabama has never adopted a development plan, but one was written a few years ago. Your vice-president should have a copy. If not, just do the best you can.

- Plan for long-range development.

This really needs some attention. Projects that look like they are leading somewhere will be highly rated. "Somewhere" means a larger or deeper involvement of faculty with industry, or plans to develop a product or process commercially, or to move in a planned or defined step in that direction, or to a proposal to another funding source (not ASGC) to seek substantial funds for a joint project. Note that these are plans, not achievements, but will be assessed by the panel for reasonableness.

- What are the contributions of resources and effort of each partner?

To what use will the product of this project be put? Will it lead to new work, a new proposal, product or process? Who will pay for this next step or phase?